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(54) **Title:** DEFLECTION REFERENCE ADJUSTMENT FOR VARIABLE TRACK PITCH MEDIA

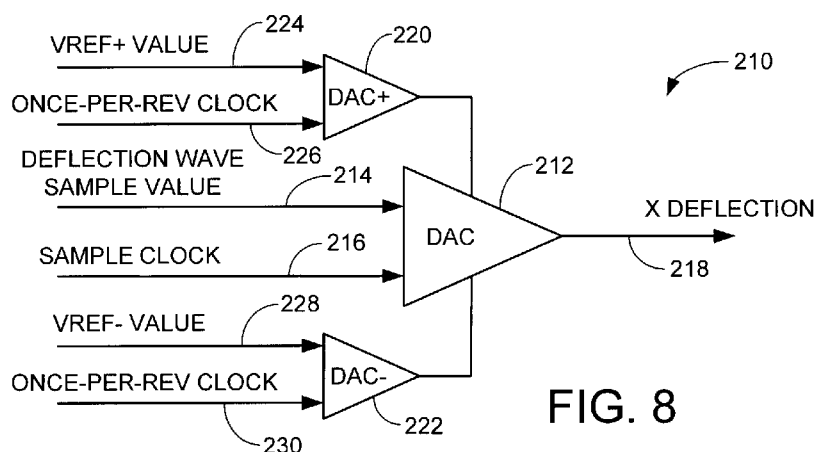


FIG. 8

(57) **Abstract:** Apparatus and method for generating an analog waveform (232, 234, 236), such as a deflection signal (182) used to deflect a write beam (152) during the writing of data to a rotatable medium (102) having a variable track pitch (TP). In accordance with various embodiments, a first digital to analog converter (DAC) (212) is configured to output a deflection signal (218) having an analog voltage level corresponding to a magnitude of a first multi-bit digital input value (214) applied to the first DAC. A second DAC (220, 222) is configured to supply a rail voltage to the first DAC having an analog voltage level corresponding to a magnitude of a second multi-bit digital input value (224, 228) applied to the second DAC. The deflection signal is used to deflect a write beam (152) supplied by a write beam generator (151).